



TECHNICAL DATA SHEET

ALUMINUM SULFATE

Concise industrial chemical documentation for supplier, procurement, and technical review.

Aluminum Sulfate is an inorganic aluminum salt widely used in water treatment, paper manufacturing, textile processing, and various industrial chemical applications where coagulation and pH control performance are required.

PRODUCT NAME & CAS NUMBER

Product Name	Aluminum Sulfate
Chemical Formula	$Al_2(SO_4)_3$
CAS Number	10043-01-3

MAIN APPLICATIONS

- Coagulant for municipal and industrial water treatment systems.
- Papermaking additive for sizing, retention, and process control.
- Textile processing chemical for dyeing and finishing operations.
- pH adjustment and clarification aid in selected industrial processes.
- Raw material for aluminum-based chemical formulations.
- Wastewater treatment support for suspended solids removal.

KEY PROPERTIES

Property	Typical Description
Appearance	White to off-white crystalline solid, granules, or powder
Odor	Odorless
Purity	Commercial grade; typically specified according to buyer requirements
Density	Approx. 2.67 g/cm ³ for anhydrous material
Solubility	Soluble in water; practically insoluble in alcohol
pH	Acidic in aqueous solution

STORAGE CONDITIONS

Store in a cool, dry, and well-ventilated area away from moisture, incompatible alkaline materials, and direct sunlight. Keep containers tightly closed when not in use. Handle with appropriate personal protective equipment and follow local regulations for industrial chemical storage.

TECHNICAL DISCLAIMER

The information provided in this Technical Data Sheet is intended for general industrial guidance only. Specifications may vary by grade, supplier, production batch, and contractual agreement. Users must verify product suitability through their own testing and comply with applicable safety, handling, transportation, and regulatory requirements.